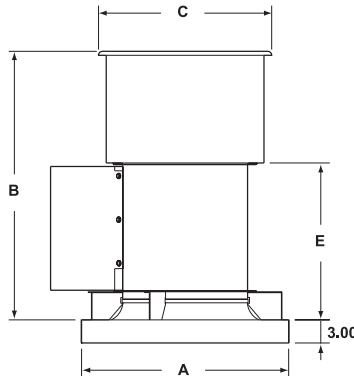




Belt Drive Tubeaxial Roof Exhauster

Model USBH

Model USBH belt drive tubeaxial exhausters are ideally suited for roof exhaust applications that require the motor, drives and bearing located out of the airstream. The high velocity upblast discharge of the USBH disperses air high above the buildings roof. Capacities up to 61,236 CFM and up to 1 1/4 inch static pressure. USBH exhausters can operate continuously in air stream temperatures up to 200°F. Special options are available for high temperature exhaust and smoke removal applications.

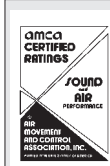


DIMENSIONS

Fan Model	A	B	C	E	Roof Opening*	Curb Model
USBH16	27.00	34.89	22.50	20.39	22.5 x 22.5	C25.5
USBH18	31.00	36.38	24.50	20.88	26.5 x 26.5	C29.5
USBH24	38.00	40.75	30.00	20.75	33.5 x 33.5	C36.5
USBH30	46.00	54.25	37.50	29.25	41.5 x 41.5	C44.5
USBH36	52.50	64.88	45.00	28.38	48 x 48	C51
USBH42	60.00	67.38	52.50	35.00	55.5 x 55.5	C58.5
USBH48	64.00	74.75	60.00	37.50	59.5 x 59.5	C62.5
USBH54	67.00	84.88	67.50	43.63	62.5 x 62.5	C65.5
USBH60	75.00	94.30	75.00	47.80	70.5 x 70.5	C73.5

Dimensions are shown in inches.

*Recommended maximum



U.S. Fan International® certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



U.L. 705 Listed



CSA Certified

Consult your U.S. Fan representative for availability.

Construction Features

Housing

- Constructed of heavy gauge steel with epoxy finish
- Rolled flange at each end for structural strength and rigidity

Windband

- Constructed of heavy gauge steel with rolled flange
- Cross channel member provides lateral rigidity and open position stop for butterfly dampers

Butterfly Dampers

- Constructed of heavy gauge aluminum
- Stainless steel hinge pins and nylon bearings provide quiet, low friction operation
- Dampers open and close against rubber bumpers for quiet operation
- Water trough under damper hinge provides drainage for rain, melting snow and ice
- Magnetic latches hold dampers closed when exhauster not in use

Aluminum Propeller

- Constructed of welded heavy gauge aluminum
- High efficiency circular arc airfoil blade design
- Precision balanced for smooth vibration free operation
- Heavy gauge steel propeller standard on USBH54

Bearings

- Permanently lubricated in a duplex split pillow block housing
- Bearings are resiliently mounted in neoprene rings
- Rated at L₅₀ life of 200,000 hours
- 5 year** limited warranty on duplex split pillow block bearings
- Unitary pillow block bearings standard on USBH60

Drive Assembly

- Cast iron drives sized for 150% of drive horsepower
- Static free, oil and heat resistant belts

Motor

- Continuous duty motors by nationally recognized manufacturers
- Prelubricated ball bearings requiring minimum maintenance

Belt & Bearing Enclosure

- Streamline enclosure virtually eliminates turbulence and air drag
- Bearings are ventilated with outside air for longer life

Motor Cover

- Heavy gauge steel cover protects motor and drive from adverse weather

Options/Accessories

- Roof Curbs
- Disconnect Switches
- Inlet/Outlet Guard
- Coatings
- Fusible Heat Release Damper Link
- UF Option 500°F/4hrs.; 1000°F/15 min.
- SE Option U.L. Listed "Power Ventilator for Smoke Control Systems"

PERFORMANCE DATA															
Fan Model	HP	RPM	Tip Speed	Max. Sones	CFM vs. Static Pressure									Max. BHP	Est. Ship Wts. lbs.
					.000"	.125"	.250"	.375"	.500"	.625"	.750"	1.000"	1.250"		
USBH16E	1/4	1800	7568	24	2273	2070	1794							.27	124
USBH16F	1/3	1976	8308	28	2495	2310	2081	1757						.36	130
USBH16G	1/2	2267	9532	32	2862	2702	2530	2304	2000					.54	132
USBH16H	3/4	2600	10931	42	3283	3142	3002	2829	2631	2365	2064			.81	134
USBH16J	1	2855	12004	48	3604	3477	3349	3217	3038	2854	2604	2074		1.08	138
USBH18F	1/3	1510	7214	23	3118	2862	2552							.37	140
USBH18G	1/2	1730	8266	27	3573	3349	3103	2795						.54	144
USBH18H	3/4	1980	9460	34	4089	3893	3697	3456	3171	2670				.81	148
USBH18J	1	2180	10416	38	4502	4324	4146	3950	3722	3437	2995			1.09	152
USBH18K	1 1/2	2495	11921	47	5153	4997	4842	4686	4506	4308	4105	3316	2605	1.63	156
USBH24G	1/2	1090	6950	19.2	5488	4976	4292							0.50	367
USBH24H	3/4	1250	7980	28	6294	5852	5327	4624						0.75	372
USBH24J	1	1375	8770	36	6923	6521	6072	5549	4780					1.00	379
USBH24K	1 1/2	1600	10200	45	8056	7711	7365	6939	6496	5866	4875			1.53	388
USBH24L	2	1730	11040	53	8711	8391	8072	7706	7306	6835	6252	4633		2.00	399
USBH24M	3	1945	12400	64	9793	9509	9225	8941	8589	8233	7850	6765		2.83	410
USBH30H	3/4	856	6830	21	8820	8300								.75	568
USBH30J	1	942	7520	27	9740	9260	8360							1.00	574
USBH30K	1 1/2	1078	8600	38	11110	10400	9750	8850	7650					1.50	583
USBH30L	2	1187	9480	45	12130	11580	10920	10160	9340	7920				1.95	596
USBH30M	3	1358	10850	53	14000	13610	13040	12410	11720	11030	10080			3.00	607
USBH30N	5	1644	13140	71	16946	16519	16085	15639	15171	14671	14129	12842		5.30	615
USBH36J	1	698	6670	27	12500	11230								1.07	805
USBH36K	1 1/2	799	7640	31	14310	13230	11840							1.60	812
USBH36L	2	880	8410	37	15770	14850	13600	12080						2.14	823
USBH36M	3	1007	9620	61	18040	17230	16200	15090	13660	11990				3.20	832
USBH36N	5	1193	11400	71	21380	20700	19950	19100	18160	16940	15810	12230		5.33	840
USBH42K	1 1/2	620	6900	28	18330	16870	15160							1.73	1046
USBH42L	2	683	7600	32	20190	18900	17510	15750						2.30	1049
USBH42M	3	781	8690	47	23070	21960	20740	19300	17710	14760				3.43	1058
USBH42N	5	926	10300	54	27860	26390	25450	24420	23230	21950	20580			5.73	1073
USBH42P	7 1/2	1060	11800	77	31400	30580	29740	28910	28030	26500	25870	23320		8.66	1148
USBH42R	10	1170	13025	95	34584	33779	32974	32169	31364	30463	29546	27651		10.91	1178
USBH48K	1 1/2	498	6320	30	22115	20400								1.48	1366
USBH48L	2	548	6960	36	24330	22830	20570							1.96	1375
USBH48M	3	627	7960	55	27840	26500	24930	22660	19390					2.94	1384
USBH48N	5	743	9430	68	33000	31930	30740	29240	27300	24770	21780			4.90	1394
USBH48P	7 1/2	851	10800	78	37770	36890	35870	34670	33310	31770	29720	24600		7.36	1475
USBH48R	10	936	11900	92	41580	40800	39860	38730	37790	36470	34970	31400		9.80	1506
USBH54K	1 1/2	416	5881	21	23074	20424	17140							1.71	1566
USBH54L	2	458	6475	25	25403	23014	20325	16254						2.30	1575
USBH54M	3	524	7408	30	29064	26989	24793	22144	18038					3.41	1584
USBH54N	5	621	8779	40	34444	32700	30910	29003	26788	23991				5.76	1594
USBH54P	7 1/2	711	10052	53	39436	37916	36373	34780	33088	31186	28907			8.56	1676
USBH54R	10	783	11069	61	43430	42050	40657	39234	37761	36198	34463	30122		11.55	1706
USBH54S	15	870	12299	73	48255	47014	45765	44500	43207	41873	40472	37262	33186	15.85	1766
USBH60M	3	432	6786	28	32579	29779	26713	22539						3.24	1952
USBH60N	5	510	8011	36	38416	36104	33652	30906	27359					5.31	2072
USBH60P	7 1/2	590	9268	45	44494	42462	40387	38210	35793	32848				8.15	2175
USBH60R	10	640	10053	54	48265	46393	44494	42532	40447	38096	35275			10.43	2218
USBH60S	15	750	11781	69	56560	54965	53358	51724	50047	48300	46432	41960	35497	16.73	2395
USBH60T	20	812	12755	82	61236	59763	58282	56784	55258	53691	52061	48432	43912	21.39	2455

Performance shown is for Installation Type A: Free Inlet, Free Outlet.

Performance ratings do not include the effects of appurtenances in the airstream.

Power rating (BHP) does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 feet (1.524 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: Free Inlet fan sone levels.

High Temperature Construction Features	Option UF	Option SE
Hi-Temperature Bearings	•	•
Copper Lubrication Lines	•	•
Dual Heat Resistant Belts	•	•
Heat Slinger	•	•
Steel Propeller	•	•
Motor Outside Airstream	•	•
Ventilated Belt and Bearing Enclosure	•	•
Fusible Link Damper Lifters	•	•
Fusible Link Damper Lifters Capable of Lifting 10 lbs./sq. ft., meets UL793		•
UL Listed "Power Ventilator for Smoke Control Systems"		•